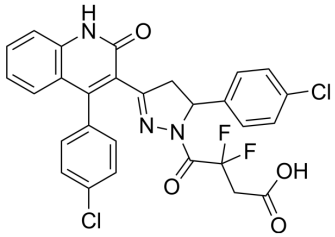
DQP-997-74

Cat. No.:	HY-155811
CAS No.:	2377187-09-0
Molecular Formula:	$C_{28}H_{19}Cl_2F_2N_3O_4$
Molecular Weight:	570.37
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DQP-997-74 (compound 2i) is a selective inhibitor of N-methyl-d-aspartate receptor (NMDAR), specifically targeting GluN2C/D (IC_{50}: 0.069 μM and 0.035 μM), with blood-brain barrier penetrability. Where DQP refers to dihydroquinoline-pyrazoline. DQP-997-74 acts synergistically with the agonist glutamate to exhibit time-dependent enhanced potency in inhibiting hypersynchronous activity driven by high-frequency excitatory synaptic transmission. DQP-997-74 reduces the number of epileptogenesis in a murine model of tuberous sclerosis complex (TSC)-induced epilepsy. DQP-997-74 can be used for research on NMDAR-related neurological diseases[1].
IC_{50} & Target	IC50: 0.069 μM (GluN2C), 0.035 μM (GluN2D), 5.2 μM (GluN2A), 16 μM (GluN2B)[1]

REFERENCES

[1]. D'Erasmo MP, et al. Development of a Dihydroquinoline-Pyrazoline GluN2C/2D-Selective Negative Allosteric Modulator of the N-Methyl-d-aspartate Receptor. ACS Chem Neurosci. 2023 Sep 6;14(17):3059-3076..

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